

CLAIMS

1. A device for removing impurities from a liquid, comprising a reservoir for holding filtering material at the bottom side thereof on the one hand and a liquid, in particular at the upper side above the filtering material, on the other hand, a liquid supply channel opening into the bottom side of the reservoir for supplying liquid to be purified to the reservoir via liquid displacement means, a first liquid discharge channel extending from the upper side of the reservoir for discharging purified liquid from the reservoir and a fluid supply channel opening into the bottom side of the reservoir for causing turbulence in filtering material present in the liquid at regular intervals by supplying a fluid, using fluid displacement means, and thus detaching impurities from said filtering material, characterized in that a pipe comprising a first end positioned at the bottom side of the reservoir and a second end positioned opposite said first end is provided in the reservoir, spaced from the mouth of the fluid supply channel by some distance, for the passage of a fluid supplied to the reservoir via the fluid supply channel.
2. A device according to claim 1, characterized in that the pipe is provided with a funnel on the side facing towards the mouth of the fluid supply channel, which funnel flares out in the direction of the mouth of the fluid supply channel.
3. A device according to claim 1 or 2, characterized in that the second end of the pipe is disposed in the upper side of the reservoir.
4. A device according to claim 1, 2 or 3, characterized in that a resistance element is disposed in the reservoir, spaced from the second end of the pipe by some distance and being in line therewith.
5. A device according to any one of the preceding claims, characterized in that the fluid supply channel opens into the bottom of the reservoir.

6. A device according to claim 5, characterized in that the bottom of the reservoir extends upwards from the mouth of the fluid supply channel.

7. A device according to claim 6, characterized in that the bottom of the reservoir is substantially V-shaped, seen in vertical cross-sectional view.

8. A device according to any one of the preceding claims, characterized in that the mouth of the fluid supply channel in the reservoir is directed upwards.

9. A device according to any one of the preceding claims, characterized in that the device comprises a second liquid discharge channel extending from the upper side of the reservoir for discharging liquid with impurities suspended therein as a result of the turbulence of the filtering material, and shut-off means for shutting off the first liquid discharge channel and/or the second liquid discharge channel.

10. A device according to claim 9, characterized in that a weir is provided between the first liquid discharge channel and the second liquid discharge channel.

11. A device according to claim 9 or 10, characterized in that the fluid displacement means and the shut-off means are arranged for joint operation.

12. A device according to any one of the preceding claims, characterized in that said shut-off means operate pneumatically.

13. A device according to any one of the preceding claims, characterized in that said shut-off means comprise a membrane.